

NOVEMBER/DECEMBER 2025

CEL33 — PROGRAMMING IN C

Time : Three hours

Maximum : 75 marks

SECTION A — (10 × 2 = 20 marks)

Answer ALL the questions

1. Define constant.
2. What are called operators?
3. Write the general format of go to statement.
4. Define library function.
5. What is an array?
6. What do you mean by 'Call by reference'?
7. Define structure.
8. Write the general form of declaration of a union.
9. What are register variables?
10. What is bitwise operation?



SECTION B — (5 × 5 = 25 marks)

Answer ALL the questions.

11. (a) Discuss the types of variables.

Or

- (b) Describe the arithmetic operators.

12. (a) Illustrate the following :

- (i) if-else
- (ii) while

Or

- (b) Discuss the process of recursion with an example.

13. (a) Explain the initialization of one dimensional array.

Or

- (b) Discuss the passing of pointers to a function.

14. (a) Enumerate the processing a structure.

Or

- (b) Outline the self-referential structures.

15. (a) Describe the register variables.

Or

- (b) Explain : C processor with a suitable examples.

SECTION C — (3 × 10 = 30 marks)

Answer any THREE questions.

16. Explain the data types.

17. Describe the following statements :

- (a) Switch
- (b) Break
- (c) Continue.

18. Explain the two dimensional arrays.

19. Describe the passing structure to a function.

20. Explain the processing of data files.

